(FILE 'HOME' ENTERED AT 14:37:01 ON 23 SEP 2004) FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 14:40:32 ON 23 SEP 2004 L11300 S (NANOPARTICLE? OR NANO? OR NANOSPHERE?) (3A) OLIGONUCLEOTIDE? L2 596 S L1 AND AQUEOUS SOLUTION? L3 546 S L2 AND SALT 48 S L3 AND BIND? (15A) SALT? (20A) OLIGONUCLEOTIDE? (20A) (NANOPA T.4 L5 44 DUP REM L4 (4 DUPLICATES REMOVED) L6 0 S L5 AND PY<=1996 L7 0 S L5 0 S L5 AND PY<=1997 L8=> d l5 bib 1-44 L5 ANSWER 1 OF 44 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN DUPLICATE 1 AN 2004-213934 [20] WPIDS CR 2003-328477 [31]; 2004-031299 [03] DNC C2004-084699 TIMetallic core/shell nanoparticles, useful as carriers for oligonucleotide probes used in hybridization assays. DC B04 D16 IN CAO, Y; JIN, R; MIRKIN, C A PΑ (NOUN) UNIV NORTHWESTERN CYC PIUS 2004038255 A1 20040226 (200420)\* 1 ADT US 2004038255 A1 Provisional US 2001-293861P 20010525, Div ex US 2001-34451 20011228, US 2003-397579 20030326 PRAI US 2001-293861P 20010525; US 2001-34451 20011228: US 2003-397579 20030326 L5 ANSWER 2 OF 44 USPATFULL on STN 2004:144556 USPATFULL ΑN TINanoparticles having oligonucleotides attached thereto and uses therefor Mirkin, Chad A., Wilmette, IL, UNITED STATES IN Letsinger, Robert L., Wilmette, IL, UNITED STATES Mucic, Robert C., Glendale, CA, UNITED STATES Storhoff, James J., Evanston, IL, UNITED STATES Elghanian, Robert, Skokie, IL, UNITED STATES Taton, Thomas A., Little Canada, MN, UNITED STATES Garimella, Viswanadham, Evanston, IL, UNITED STATES Li, Zhi, Evanston, IL, UNITED STATES PΑ Nanosphere, Inc. (U.S. corporation) PΙ US 2004110220 À1 20040610 AΙ US 2003-716829 **A**1 20031118 (10) Division of Ser. No. US 2001-760500, filed on 12 Jan 2001, PENDING RLI Continuation-in-part of Ser. No. US 2000-603830, filed on 26 Jun 2000, GRANTED, Pat. No. US 6506564 Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997, PENDING PRAI US 2000-176409P 20000113 (60) US 2000-213906P 20000626 (60) US 2000-200161P 20000426 (60) US 1996-31809P 19960729 (60) DTUtility FS APPLICATION LREP MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP, 300 S. WACKER DRIVE, 32ND

FLOOR, CHICAGO, IL, 60606

Number of Claims: 485

CLMN

```
ECL
       Exemplary Claim: 1
DRWN
       52 Drawing Page(s)
LN.CNT 8748
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 3 OF 44 USPATFULL on STN
AN
       2004:94779 USPATFULL
TΙ
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Bloomington, IN, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Garimella, Viswanadham, Evanston, IL, UNITED STATES
       Li, Zhi, Evanston, IL, UNITED STATES
       Park, So-Jung, Austin, TX, UNITED STATES
PA
       Nanosphere, Inc. (U.S. corporation)
       US 2004072231
                        A1
PΙ
                               20040415
       US 2003-640618
                               20030813 (10)
ΑI
                          A1
       Division of Ser. No. US 2001-820279, filed on 28 Mar 2001, PENDING
RLI
       Continuation-in-part of Ser. No. US 2001-760500, filed on 12 Jan 2001,
       PENDING Continuation-in-part of Ser. No. US 2000-603830, filed on 26 Jun
       2000, GRANTED, Pat. No. US 6506564 Continuation-in-part of Ser. No. US
       1999-344667, filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944
       Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999,
       ABANDONED Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21
       Jul 1997, PENDING
PRAI
       US 2000-255235P
                           20001211 (60)
       US 2000-254392P
                           20001208 (60)
       US 2000-192699P
                           20000328 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 570
CLMN
       Exemplary Claim: 1
ECL
DRWN
       63 Drawing Page(s)
LN.CNT 11118
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 4 OF 44 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN DUPLICATE 2
AN
     2004-031299 [03] WPIDS
     2003-328477 [31]; 2004-213934 [20]
CR
                       DNC C2004-010368
DNN
    N2004-024654
ΤI
     Core/shell nanoparticle for detecting target molecules, e.g. nucleic
     acids, comprises inner metal-containing nanoparticle core, outer
     non-alloying gold shell, and oligonucleotides attached to gold shell.
DC
     B04 D16 L03 P53 V02
IN
     CAO, Y; JIN, R; MIRKIN, C A
PA
     (CAOY-I) CAO Y; (JINR-I) JIN R; (MIRK-I) MIRKIN C A
CYC
     US 2003129608
                    A1 20030710 (200403)*
PΙ
                                                21
    US 2003129608 A1 Provisional US 2001-293861P 20010525, CIP of US
     2001-34451 20011228, US 2002-153483 20020522
PRAI WO 2001-US50825
                          20011228
L5
     ANSWER 5 OF 44 USPATFULL on STN
       2003:294281 USPATFULL
ΑN
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
TN
       Park, So-Jung, Austin, TX, UNITED STATES
       Taton, Thomas Andrew, Little Canada, MN, UNITED STATES
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
PΙ
      US 2003207296
                         A1
                               20031106
```

```
20021008 (10)
AΙ
       US 2002-266983
                          A1
RLI
       Continuation-in-part of Ser. No. US 2001-8978, filed on 7 Dec 2001,
       PENDING Continuation-in-part of Ser. No. US 2001-927777, filed on 10 Aug
       2001, PENDING Continuation-in-part of Ser. No. US 2001-820279, filed on
       28 Mar 2001, PENDING Continuation-in-part of Ser. No. US 2001-760500,
       filed on 12 Jan 2001, PENDING Continuation-in-part of Ser. No. US
       2000-603830, filed on 26 Jun 2000, GRANTED, Pat. No. US 6506564
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, PENDING
PRAI
       US 2001-327864P
                           20011009 (60)
       US 2000-254418P
                           20001208 (60)
       US 2000-255236P
                           20001211 (60)
       US 2001-282640P
                           20010409 (60)
       US 2000-224631P
                           20000811 (60)
       US 2000-192699P
                           20000328 (60)
       US 2000-254392P
                           20001208 (60)
       US 2000-255235P
                           20001211 (60)
       US 2000-176409P
                           20000113 (60)
       US 2000-213906P
                           20000626 (60)
       US 2000-200161P
                           20000426 (60)
       US 1996-31809P
                           19960729 (60)
DT
       Utility
FS
       APPLICATION
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
LREP
       3200, CHICAGO, IL, 60606
       Number of Claims: 677
CLMN
ECL
       Exemplary Claim: 1
DRWN
       75 Drawing Page(s)
LN.CNT 12981
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 6 OF 44 USPATFULL on STN
AN
       2003:257732 USPATFULL
TI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Bloomington, IN, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas Andrew, Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
PΙ
       US 2003180783
                               20030925
                          Α1
ΑI
       US 2003-410324
                          A1
                               20030409 (10)
RLI
       Continuation of Ser. No. US 2001-961949, filed on 20 Sep 2001, GRANTED,
       Pat. No. US 6582921 Continuation of Ser. No. US 2000-603830, filed on 26
       Jun 2000, GRANTED, Pat. No. US 6506564 Continuation-in-part of Ser. No.
       US 1999-344667, filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944
       Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999,
       ABANDONED Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21
       Jul 1997, PENDING
PRAI
       US 1996-31809P
                           19960729 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
DRWN
       31 Drawing Page(s)
LN.CNT 8062
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

```
ΑN
       2003:237907 USPATFULL
ΤI
       Compositions and methods for the therapy and diagnosis of colon cancer
IN
       King, Gordon E., Shoreline, WA, UNITED STATES
       Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
       Xu, Jiangchun, Bellevue, WA, UNITED STATES
       Secrist, Heather, Seattle, WA, UNITED STATES
       Jiang, Yuqiu, Kent, WA, UNITED STATES
       Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
PA
PΙ
       US 2003166064
                          A1
                                20030904
       US 2002-99926
                                20020314 (10)
ΑI
                          Α1
       Continuation-in-part of Ser. No. US 2001-33528, filed on 26 Dec 2001,
RLI
       PENDING Continuation-in-part of Ser. No. US 2001-920300, filed on 31 Jul
       2001, PENDING
       US 2001-302051P
                            20010629 (60)
PRAI
       US 2001-279763P
                            20010328 (60)
       US 2000-223283P
                            20000803 (60)
DT
       Utility
FS
       APPLICATION
       SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,
LREP
       SEATTLE, WA, 98104-7092
       Number of Claims: 17
CLMN
       Exemplary Claim: 1
ECL
DRWN
       No Drawings
LN.CNT 8531
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 8 OF 44 USPATFULL on STN
AN
       2003:213644 USPATFULL
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
PΙ
       US 2003148282
                          Α1
                                20030807
ΑI
       US 2001-976968
                          Α1
                                20011012 (9)
RLI
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, GRANTED,
       Pat. No. US 6506564 Continuation-in-part of Ser. No. US 1999-344667,
       filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944 Continuation-in-part
       of Ser. No. US 1999-240755, filed on 29 Jan 1999, ABANDONED
       Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997,
       PENDING
PRAI
       US 1996-31809P
                            19960729 (60)
       US 2000-200161P
                            20000426 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8043
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 9 OF 44 USPATFULL on STN
L5
       2003:207246 USPATFULL
AN
ΤI
       Real-time monitoring of PCR amplification using nanoparticle probes
TN
       Storhoff, James J., Evanston, IL, UNITED STATES
       Fritz, Brett, Chicago, IL, UNITED STATES
       Herrmann, Mark, Clinton, UT, UNITED STATES
PТ
       US 2003143604
                          A1
                                20030731
ΑI
       US 2002-306630
                                20021127 (10)
                          Α1
```

```
PRAI
       US 2001-334644P
                            20011130 (60)
DT
       Utility
FS
       APPLICATION
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
LREP
       3200, CHICAGO, IL, 60606
CLMN
       Number of Claims: 91
ECL
       Exemplary Claim: 1
DRWN
       12 Drawing Page(s)
LN.CNT 2116
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 10 OF 44 USPATFULL on STN
AN
       2003:207180 USPATFULL
       Nanoparticles having oligonucleotides attached thereto and uses therefor
TI
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
PA
       Nanosphere, Inc. (U.S. corporation)
ΡI
       US 2003143538
                          A1
                                20030731
ΑI
       US 2001-975059
                          A1
                                20011011 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, GRANTED,
RLI
       Pat. No. US 6506564 Continuation-in-part of Ser. No. US 1999-344667,
       filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944 Continuation-in-part
       of Ser. No. US 1999-240755, filed on 29 Jan 1999, ABANDONED
       Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997,
       PENDING
                            19960729 (60)
PRAI
       US 1996-31809P
       US 2000-200161P
                            20000426 (60)
       Utility
DT
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1/
DRWN
       46 Drawing Page(s)
LN.CNT 8062
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L_5
     ANSWER 11 OF 44 USPATFULL on STN
AN
       2003:180699 USPATFULL
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
PA
       Nanosphere, Inc. (U.S. corporation)
PΤ
       US 2003124528
                          Α1
                               20030703
ΑI
       US 2001-976601
                          Α1
                               20011012 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                           19960729
       US 2000-200161P
                           20000426 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
```

```
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8060
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 12 OF 44 USPATFULL on STN
L5
       2003:127030 USPATFULL
AN
       Nanoparticles having oligonucleotides attached thereto and uses therefor
TI
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Taton, Thomas Andrew, Little Canada, MN, UNITED STATES
       Lu, Gang, Mt Prospect, IL, UNITED STATES
PΙ
       US 2003087242
                          A1
                                20030508
       US 2001-8978
ΑI
                           Α1
                                20011207 (10)
RLI
       Continuation-in-part of Ser. No. US 2001-927777, filed on 10 Aug 2001,
       PENDING Continuation-in-part of Ser. No. US 2001-820279, filed on 28 Mar
       2001, PENDING Continuation-in-part of Ser. No. US 2001-760500, filed on
       12 Jan 2001, PENDING Continuation-in-part of Ser. No. US 2000-603830,
       filed on 26 Jun 2000, PENDING Continuation-in-part of Ser. No. US
       1999-344667, filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944
       Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999,
       ABANDONED Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21
       Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                            19960729 (60)
       US 2000-176409P
                            20000113 (60)
       US 2000-192699P
                            20000328 (60)
       US 2000-200161P
                            20000426 (60)
       US 2000-213906P
                            20000626 (60)
       US 2000-224631P
                            20000811 (60)
       US 2000-254392P
                            20001208 (60)
       US 2000-254418P
                            20001208 (60)
       US 2000-255235P
                            20001211 (60)
       US 2000-255236P
                            20001211 (60)
       US 2001-282640P
                           20010409 (60)
DТ
       Utility
FS
       APPLICATION
LREP
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
       3200, CHICAGO, IL, 60606
CLMN
       Number of Claims: 626
ECL
       Exemplary Claim: 1
DRWN
       71 Drawing Page(s)
LN.CNT 12308
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L_5
     ANSWER 13 OF 44 USPATFULL on STN
AN
       2003:106233 USPATFULL
TI
       Compositions and methods for the therapy and diagnosis of pancreatic
       cancer
IN
       Benson, Darin R., Seattle, WA, UNITED STATES
       Kalos, Michael D., Seattle, WA, UNITED STATES
       Lodes, Michael J., Seattle, WA, UNITED STATES
       Persing, David H., Redmond, WA, UNITED STATES
       Hepler, William T., Seattle, WA, UNITED STATES
       Jiang, Yuqiu, Kent, WA, UNITED STATES
PΑ
       Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
       US 2003073144
PΙ
                          Α1
                               20030417
ΑI
       US 2002-60036
                          Α1
                               20020130 (10)
       US 2001-333626P
PRAI
                           20011127 (60)
       US 2001-305484P
                           20010712 (60)
       US 2001-265305P
                           20010130 (60)
       US 2001-267568P
                           20010209 (60)
       US 2001-313999P
                           20010820 (60)
       US 2001-291631P
                           20010516 (60)
```

CLMN

Number of Claims: 431

```
US 2001-287112P
                            20010428 (60)
       US 2001-278651P
                            20010321 (60)
       US 2001-265682P
                            20010131 (60)
DT
       Utility
FS
       APPLICATION
       SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,
LREP
       SEATTLE, WA, 98104-7092
       Number of Claims: 17
CLMN
       Exemplary Claim: 1
ECL
DRWN
       No Drawings
LN.CNT 14253
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 14 OF 44 USPATFULL on STN
AN
       2003:99517 USPATFULL
       Nanoparticles having oligonucleotides attached thereto and uses therefor
ΤI
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
PA
       Nanosphere, Inc. (U.S. corporation)
PI
       US 2003068622
                           A1
                                20030410
AΙ
       US 2001-976863
                           Α1
                                20011012 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                            19960729 (60)
       US 2000-200161P
                            20000426 (60)
DT
       Utility
FS
       APPLICATION
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
LREP
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 15 OF 44 USPATFULL on STN
AN
       2003:86172 USPATFULL
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PΑ
       US 2003059777
PΤ
                           A1
                                20030327
       US 6645721
                           B2
                                20031111
       US 2001-957313
AΤ
                           Α1
                                20010920 (9)
RLI
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
       US 1996-31809P
PRAT
                            19960729 (60)
       US 2000-200161P
                            20000426 (60)
DТ
       Utility
FS
       APPLICATION
```

```
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
       Exemplary Claim: 1
ECL
       46 Drawing Page(s)
DRWN
LN.CNT 8060
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 16 OF 44 USPATFULL on STN
L_5
AN
       2003:78438 USPATFULL
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
TN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
PA
       Nanosphere, Inc. (U.S. corporation)
PΙ
       US 2003054358
                          A1
                               20030320
       US 2001-975376
                          A1
                               20011011 (9)
ΑT
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLT
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                           19960729 (60)
PRAI
       US 1996-31809P
       US 2000-200161P
                           20000426 (60)
       Utility
DT
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 17 OF 44 USPATFULL on STN
AN
       2003:71346 USPATFULL
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc.
PA
       US 2003049631
PΙ
                          A1
                               20030313
       US 6709825
                          - B2
                               20040323
AΙ
       US 2001-974500
                          Α1
                               20011010 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                           19960729 (60)
PRAI
       US 1996-31809P
       US 2000-200161P
                           20000426 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 172
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
```

```
LN.CNT 6565
```

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

```
ANSWER 18 OF 44 USPATFULL on STN
L5
AN
       2003:71345 USPATFULL
       Nanoparticles having oligonucleotides attached thereto and uses therefor
ΤI
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
PΑ
       Nanosphere, Inc. (U.S. corporation)
PΙ
       US 2003049630
                          A1
                               20030313
       US 6759199
                          B2
                               20040706
       US 2001-957318
                          A1
                               20010920 (9)
AΤ
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                        19960729 (60)
       US 2000-200161P
                           20000426 (60)
DT
       Utility
FS
       APPLICATION
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
LREP
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 431
CLMN
       Exemplary Claim: 1
ECL
DRWN
       46 Drawing Page(s)
LN.CNT 8041
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 19 OF 44 USPATFULL on STN
       2003:64684 USPATFULL
ΑN
       Nanoparticles having oligonucleotides attached thereto and uses therefor
ΤI
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C, Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
PΙ
       US 2003044805
                          A1
                               20030306
       US 6777186
                          B2
                               20040817
                               20011015 (9)
AΙ
       U$ 2001-981344
                          A1
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
       US 1996-31809P
                           19960729 (60)
PRAI
       US 2000-200161P
                           20000426 (60)
       Utility
DT
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8061
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

L5 ANSWER 20 OF 44 USPATFULL on STN

```
AN
       2003:30222 USPATFULL
TΙ
       Nanoparticles having oligonucleotides attached thereto and uses therefor
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Park, So-Jung, Evanston, IL, UNITED STATES
PΙ
       US 2003022169
                         A1
                               20030130
       US 6750016
                          B2
                               20040615
AΤ
       US 2001-820279
                          A1
                               20010328 (9)
       Continuation-in-part of Ser. No. US 2001-760500, filed on 12 Jan 2001,
RLI
       PENDING Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun
       1999, GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                           19960729 (60)
PRAI
       US 1996-31809P
                           20000113 (60)
       US 2000-176409P
       US 2000-200161P
                           20000426 (60)
                           20000328 (60)
       US 2000-192699P
       US 2000-254392P
                           20001208 (60)
       US 2000-255235P
                           20001211 (60)
DT
       Utility
FS
       APPLICATION
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
LREP
       3200, CHICAGO, IL, 60606
CLMN
       Number of Claims: 570
ECL
       Exemplary Claim: 1
DRWN
       65 Drawing Page(s)
LN.CNT 11127
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 21 OF 44 USPATFULL on STN
       2003:13189 USPATFULL
AN
TI
       Nanoparticles having oligonucleotides attached
       thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, United States
       Letsinger, Robert L., Wilmette, IL, United States
       Mucic, Robert C., Glendale, CA, United States
       Storhoff, James J., Evanston, IL, United States
       Elghanian, Robert, Chicago, IL, United States
       Taton, Thomas A., Chicago, IL, United States
PA
       Nanosphere, Inc., Northbrook, IL, United States (U.S. corporation)
PΙ
       US 6506564
                               20030114
                          В1
                               20000626 (9)
       US 2000-603830
ΑI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999
RLI
       Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999
       Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997
       US 2000-200161P
                        20000426 (60)
PRAI
       US 1996-31809P
                           19960729 (60)
DT
       Utility
FS
       GRANTED
      Primary Examiner: Riley, Jezia
EXNAM
LREP
       McDonnell Boehnen Hulbert & Berghoff
       Number of Claims: 42
CLMN
       Exemplary Claim: 1
ECL
DRWN
       84 Drawing Figure(s); 47 Drawing Page(s)
LN.CNT 5976
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 22 OF 44 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN DUPLICATE 3
AN
     2003-328477 [31]
                        WPIDS
CR
     2004-031299 [03]; 2004-213934 [20]
DNN N2003-262701
                       DNC C2003-085380
TI
     Core/shell nanoparticle comprises inner metal-containing nanoparticle core
     and outer non-alloying gold shell surrounding nanoparticle core.
DC
     B04 D16 P31 P53 S03
```

```
IN
    CAO, Y; JIN, R; MIRKIN, C A
PΑ
     (NOUN) UNIV NORTHWESTERN; (CAOY-I) CAO Y; (JINR-I) JIN R; (MIRK-I) MIRKIN
    C A
CYC
    101
PΙ
    US 2002177143
                     A1 20021128 (200331) *
                                                18
    WO 2002096262
                     A2 20021205 (200331)
                                           EN
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
            NL OA PT SD SE SL SZ TR TZ UG ZM ZW
         W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
            DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
            KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
            RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM
            7.W
    WO 2003008539
                     A2 20030130 (200331)
                                           EN
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
            NL OA PT SD SE SL SZ TR TZ UG ZM ZW
         W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
            DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
            KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
            RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM
            zw
    EP 1392872
                     A2 20040303 (200417)
                                           EN
         R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
            RO SE SI TR
    AU 2002239726
                     A1 20021209 (200452)
    AU 2002341539
                     A1 20030303 (200452)
ADT
    US 2002177143 A1 Provisional US 2001-293861P 20010525, US 2001-34451
     20011228; WO 2002096262 A2 WO 2001-US50825 20011228; WO 2003008539 A2 WO
     2002-US16382 20020522; EP 1392872 A2 EP 2002-775688 20020522, WO
     2002-US16382 20020522; AU 2002239726 A1 AU 2002-239726 20011228; AU
     2002341539 A1 AU 2002-341539 20020522
    EP 1392872 A2 Based on WO 2003008539; AU 2002239726 A1 Based on WO
     2002096262; AU 2002341539 A1 Based on WO 2003008539
PRAI US 2001-293861P
                          20010525; US 2001-34451
                                                          20011228
L5
    ANSWER 23 OF 44 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN DUPLICATE 4
AN
     2003-237646 [23]
                       WPIDS
CR
    1998-145263 [13]; 2001-061976 [07]; 2001-451868 [48]; 2001-656926 [75];
     2002-258024 [30]; 2002-608256 [65]; 2003-092900 [08]; 2003-174167 [17];
     2003-182627 [18]; 2003-198491 [19]; 2003-228114 [22]; 2003-228115 [22];
     2003-247253 [24]; 2003-430409 [40]; 2003-479398 [45]; 2003-521746 [49];
     2003-576420 [54]; 2003-596264 [56]; 2003-596265 [56]; 2003-615795 [58];
     2003-634854 [60]; 2003-810979 [76]; 2003-863931 [80]; 2003-897536 [82];
     2004-059018 [06]; 2004-059019 [06]; 2004-059020 [06]; 2004-059754 [06];
     2004-440357 [41]
DNC
    C2003-060831
ΤI
    Detecting a nucleic acid using oligonucleotides attached to
    nanoparticles, where each oligonucleotide has a sequence
     complementary to at least two portions of the nucleic acid being detected,
    useful in diagnosis of a diseases (e.g. HIV).
DC
    B04 D16
IN
    ELGHANIAN, R; LETSINGER, R L; MIRKIN, C A; MUCIC, R C; STORHOFF, J J
     (NANO-N) NANOSPHERE INC
PA
CYC
ΡI
                     B1 20021217 (200323) *
    US 6495324
                                                78
ADT
    US 6495324 B1 Provisional US 1996-31809P 19960729, CIP of WO 1997-US12783
     19970721, CIP of US 1999-240755 19990129, Div ex US 1999-344667 19990625,
    US 2000-693005 20001020
PRAI US 1996-31809P
                          19960729; WO 1997-US12783
                                                          19970721;
    US 1999-240755
                          19990129; US 1999-344667
                                                          19990625;
    US 2000-693005
                          20001020
L_5
    ANSWER 24 OF 44 USPATFULL on STN
       2002:337329 USPATFULL
AN
```

```
ΤI
       Bio-barcodes based on oligonucleotide-modified
       nanoparticles
       Mirkin, Chad A., Willmette, IL, UNITED STATES
IN
       Park, So-Jung, Evanston, IL, UNITED STATES
       Nam, Jwa-Min, Evanston, IL, UNITED STATES
PI
       US 2002192687
                          A1
                               20021219
       US 2002-108211
                               20020327 (10)
AΙ
                          A1
       Continuation-in-part of Ser. No. US 2001-820279, filed on 28 Mar 2001,
RLT
       PENDING
PRAI
       WO 2001-US10071
                           20010328
       US 2000-192699P
                           20000328 (60)
       US 2001-350560P
                           20011113 (60)
DT
       Utility
FS
       APPLICATION
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
LREP
       3200, CHICAGO, IL, 60606
CLMN
       Number of Claims: 41
       Exemplary Claim: 1
ECL
       4 Drawing Page(s)
DRWN
LN.CNT 2185
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 25 OF 44 USPATFULL on STN
L5
       2002:322449 USPATFULL
AN
       Nanoparticles having oligonucleotides attached thereto and uses therefor
TI
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
PΙ
       US 2002182613
                          A1
                               20021205
       US 6682895
                          B2
                               20040127
AΙ
       US 2001-976971
                          A1
                              20011012 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                           19960729 (60)
PRAI
       US 1996-31809P
       US 2000-200161P
                           20000426 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 172
ECL
       Exemplary Claim: 1
       46 Drawing Page(s)
DRWN
LN.CNT 6563
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
1.5
     ANSWER 26 OF 44 USPATFULL on STN
AN
       2002:322447 USPATFULL
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
PΙ
       US 2002182611
                         A1
                               20021205
       US 6610491
                          В2
                               20030826
```

```
AΙ
       US 2001-966491
                           A1
                                 20010928 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                            19960729 (60)
PRAI
       US 1996-31809P
       US 2000-200161P
                            20000426 (60)
DT
       Utility
FS
       APPLICATION
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
LREP
       3200, CHICAGO, IL, 60606
       Number of Claims: 190
CLMN
       Exemplary Claim: 1
ECL
       46 Drawing Page(s)
DRWN
LN.CNT 6646
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 27 OF 44 USPATFULL on STN
AN
       2002:307830 USPATFULL
TI
       Movement of biomolecule-coated nanoparticles in an electric field
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Chicago, IL, UNITED STATES
       Taton, Thomas Andrew, Chicago, IL, UNITED STATES
       Garimella, Viswanadham, Evanston, IL, UNITED STATES
       Li, Zhi, Evanston, IL, UNITED STATES
       Park, So-Jung, Evanston, IL, UNITED STATES
       US 2002172953
                               20021121
PΙ
                           A1
       US 2001-927777 Al 20010810 (9)
Continuation-in-part of Ser. No. US 2001-820279, filed on 28 Mar 2001,
ΑI
RLI
       PENDING Continuation-in-part of Ser. No. US 2001-760500, filed on 12 Jan
       2001, PENDING Continuation-in-part of Ser. No. US 2000-603830, filed on
       26 Jun 2000, PENDING Continuation-in-part of Ser. No. US 1999-344667,
       filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944 Continuation-in-part
       of Ser. No. US 1999-240755, filed on 29 Jan 1999, ABANDONED
       Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997,
       UNKNOWN
PRAI
       US 1996-31809P
                            19960729 (60)
       US 2000-176409P
                            20000113 (60)
       US 2000-200161P
                            20000426 (60)
       US 2000-192699P
                            20000328 (60)
       US 2000-254392P
                            20001208 (60)
                            20001211 (60)
       US 2000-255235P
       US 2000-224631P
                            20000811 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 598
ECL
       Exemplary Claim: 1
DRWN
       64 Drawing Page(s)
LN.CNT 11435
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 28 OF 44 USPATFULL on STN
AN
       2002:294562 USPATFULL
TI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
```

```
Elghanian, Robert, Chicago, IL, UNITED STATES
       Taton, Thomas A., Chicago, IL, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
                               20021107
PI
       US 2002164605
                          A1
       US 6673548
                          B2
                                20040106
                               20010928 (9)
       US 2001-966312
                          A1
AΙ
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
       US 1996-31809P
                           19960729 (60)
PRAI
       US 2000-200161P
                           20000426 (60)
       Utility
DT
FS
       APPLICATION
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
LREP
       3200, CHICAGO, IL, 60606
       Number of Claims: 431
CLMN
       Exemplary Claim: 1
ECL
DRWN
       46 Drawing Page(s)
LN.CNT 8066
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 29 OF 44 USPATFULL on STN
L_5
ΑN
       2002:287518 USPATFULL
       Nanoparticles having oligonucleotides attached thereto and uses therefor
ΤI
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
TN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas Andrew, Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PΑ
       US 2002160381
                                20021031
PΙ
                          Α1
                                20011011 (9)
       US 2001-975498
                          Α1
ΑI
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       PENDING Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan
       1999, ABANDONED Continuation-in-part of Ser. No. WO 1997-US12783, filed
       on 21 Jul 1997, UNKNOWN
       US 1996-31809P
                            19960729 (60)
PRAI
       US 2000-200161P
                           20000426 (60)
       Utility
DT
FS
       APPLICATION
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
LREP
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 431
CLMN
       Exemplary Claim: 1
ECL
       46 Drawing Page(s)
DRWN
LN.CNT 5695
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 30 OF 44 USPATFULL on STN
L_5
       2002:280028 USPATFULL
AN
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas Andrew, Little Canada, MN, UNITED STATES
PA
       Nanosphere, Inc. (U.S. corporation)
PI
       US 2002155462
                                20021024
                          Α1
       US 6720147
                          B2
                                20040413
```

```
20011012 (9)
ΑI
       US 2001-976577
                          Α1
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
       US 1996-31809P
                           19960729 (60)
PRAI
       US 2000-200161P
                           20000426 (60)
DT
       Utility
FS
       APPLICATION
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
LREP
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 431
CLMN
       Exemplary Claim: 1
ECL
DRWN
       46 Drawing Page(s)
LN.CNT 8047
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 31 OF 44 USPATFULL on STN
L5
       2002:280027 USPATFULL
AN
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas Andrew, Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
                          A1
                               20021024
PΙ
       US 2002155461
       US 2001-976378
                          A1
                               20011012 (9)
AΙ
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                          19960729 (60)
       US 2000-200161P
                           20000426 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
       46 Drawing Page(s)
DRWN
LN.CNT 8052
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 32 OF 44 USPATFULL on STN
L_5
ΑN
       2002:280025 USPATFULL
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PΑ
PΙ
       US 2002155459
                          A1
                               20021024
       US 6677122
                          B2
                               20040113
       US 2001-975062
                          A1
                               20011011 -(9)
AΤ
RLI
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
```

```
Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                           19960729 (60)
       US 2000-200161P
                           20000426 (60)
       Utility
DT
       APPLICATION
FS
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
LREP
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 431
CLMN
ECL
       Exemplary Claim: 1
       46 Drawing Page(s)
DRWN
LN.CNT 8059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 33 OF 44 USPATFULL on STN
L5
       2002:280024 USPATFULL
ΑN
тT
       Nanoparticles having oligonucleotides attached thereto and uses therefor
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PΑ
PΙ
       US 2002155458
                          A1
                               20021024
       US 6740491
                          B2
                               20040525
       US 2001-967409
                          A1
                               20010928 (9)
AΙ
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLT
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                           19960729 (60)
PRAT
       US 1996-31809P
       US 2000-200161P
                           20000426 (60)
DT
       Utility
FS
       APPLICATION
LREP
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
       3200, CHICAGO, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 34 OF 44 USPATFULL on STN
L5
AN
       2002:280008 USPATFULL
TI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
IN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Chicago, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Garimella, Viswanadham, Evanston, IL, UNITED STATES
       Li, Zhi, Evanston, IL, UNITED STATES
       US 2002155442
ΡI
                          A1
                               20021024
       US 6767702
                          B2
                               20040727
ΑI
       US 2001-760500
                          A1
                               20010112 (9)
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
RLI
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                           19960729 (60)
       US 2000-200161P
                           20000426 (60)
       US 2000-176409P
                           20000113 (60)
```

```
US 2000-213906P
                           20000626 (60)
DT
       Utility
       APPLICATION
FS
       MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
LREP
       3200, CHICAGO, IL, 60606
CLMN
       Number of Claims: 485
       Exemplary Claim: 1
ECL
DRWN
       51 Drawing Page(s)
LN.CNT 8754
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 35 OF 44 USPATFULL on STN
L5
       2002:272801 USPATFULL
AN
TI
       Compositions and methods for the therapy and diagnosis of colon cancer
       Stolk, John A., Bothell, WA, UNITED STATES
IN
       Xu, Jiangchun, Bellevue, WA, UNITED STATES
       Chenault, Ruth A., Seattle, WA, UNITED STATES
       Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
       Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
PA
PΙ
       US 2002150922
                          A1
                               20021017
       US 2001-998598
                                20011116 (9)
AΙ
                          A1
PRAI
       US 2001-304037P
                           20010710 (60)
                           20010328 (60)
       US 2001-279670P
                           20010206 (60)
       US 2001-267011P
       US 2000-252222P
                           20001120 (60)
DT
       Utility
FS
       APPLICATION
LREP
       SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,
       SEATTLE, WA, 98104-7092
CLMN
       Number of Claims: 17
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 9233
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 36 OF 44 USPATFULL on STN
AN
       2002:265844 USPATFULL
TI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
IN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
PA
       Nanosphere, Inc. (U.S. corporation)
PI
       US 2002146720
                          Α1
                               20021010
       US 6582921
                          B2
                                20030624
ΑI
       US 2001-961949
                          Α1
                               20010920 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                           19960729 (60)
       US 2000-200161P
                           20000426 (60)
       Utility
DT
FS
       APPLICATION
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 431
CLMN
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8063
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

```
2002:251128 USPATFULL
AN
ΤI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
TN
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
       US 2002137072
                          A1
                               20020926
PΙ
       US 6730269
                          B2
                               20040504
       US 2001-976617
                          Α1
                               20011012 (9)
AΙ
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
PRAI
       US 1996-31809P
                           19960729 (60)
       US 2000-200161P
                           20000426 (60)
       Utility
DТ
FS
       APPLICATION
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
LREP
       Wacker Drive, Chicago, IL, 60606
CLMN
       Number of Claims: 431
ECL
       Exemplary Claim: 1
DRWN
       46 Drawing Page(s)
LN.CNT 8061
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 38 OF 44 USPATFULL on STN
       2002:251127 USPATFULL
AN
       Nanoparticles having oligonucleotides attached thereto and uses therefor
TI
       Mirkin, Chad A., Wilmette, IL, UNITED STATES
ΙN
       Letsinger, Robert L., Wilmette, IL, UNITED STATES
       Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
PA
PΙ
       US 2002137071
                               20020926
                          Α1
ΑI
       US 2001-974007
                          A1
                               20011010 (9)
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
RLI
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                           19960729 (60)
       US 1996-31809P
PRAI
       US 2000-200161P
                           20000426 (60)
       Utility
DT
       APPLICATION
FS
LREP
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 431
CLMN
       Exemplary Claim: 1
ECL
       46 Drawing Page(s)
DRWN
LN.CNT 8063
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
1.5
     ANSWER 39 OF 44 USPATFULL on STN
AN
       2002:251126 USPATFULL
TI
       Nanoparticles having oligonucleotides attached thereto and uses therefor
```

Mirkin, Chad A., Wilmette, IL, UNITED STATES

ANSWER 37 OF 44 USPATFULL on STN

L5

IN

```
Letsinger, Robert L., Wilmette, IL, UNITED STATES
      Mucic, Robert C., Glendale, CA, UNITED STATES
       Storhoff, James J., Evanston, IL, UNITED STATES
       Elghanian, Robert, Skokie, IL, UNITED STATES
       Taton, Thomas A., Little Canada, MN, UNITED STATES
       Nanosphere, Inc. (U.S. corporation)
                               20020926
      US 2002137070
                          A1
                               20011010 (9)
      US 2001-973638
                          A1
       Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING
       Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999,
       GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US
       1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of
       Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN
                           19960729 (60)
       US 1996-31809P
       US 2000-200161P
                           20000426 (60)
       Utility
       APPLICATION
       Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
       Wacker Drive, Chicago, IL, 60606
       Number of Claims: 431
       Exemplary Claim: 1
       46 Drawing Page(s)
LN.CNT 8060
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 40 OF 44 USPATFULL on STN
       2002:243051 USPATFULL
       Compositions and methods for the therapy and diagnosis of ovarian cancer
       Algate, Paul A., Issaquah, WA, UNITED STATES
       Jones, Robert, Seattle, WA, UNITED STATES
       Harlocker, Susan L., Seattle, WA, UNITED STATES
       Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
                               20020919
                          A1
       US 2002132237
                               20010529 (9)
                          Α1
       US 2001-867701
                           20000526 (60)
       US 2000-207484P
       Utility
       APPLICATION
       SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,
       SEATTLE, WA, 98104-7092
       Number of Claims: 11
       Exemplary Claim: 1
       No Drawings
LN.CNT 25718
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 41 OF 44 USPATFULL on STN
       2002:242791 USPATFULL
       Compositions and methods for the therapy and diagnosis of colon cancer
       King, Gordon E., Shoreline, WA, UNITED STATES
       Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
       Xu, Jiangchun, Bellevue, WA, UNITED STATES
       Secrist, Heather, Seattle, WA, UNITED STATES
       Corixa Corporation, Seattle, WA, UNITED STATES (U.S. corporation)
                          A1
                               20020919
       US 2002131971
                               20011226 (10)
                          A1
       US 2001-33528
       Continuation-in-part of Ser. No. US 2001-920300, filed on 31 Jul 2001,
       PENDING
                           20010629 (60)
       US 2001-302051P
       US 2001-279763P
                           20010328 (60)
                           20000803 (60)
       US 2000-223283P
       Utility
       APPLICATION
       SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,
       SEATTLE, WA, 98104-7092
```

PΑ

PΙ

AΙ

RLI

PRAI

DT

FS

LREP

CLMN ECL

DRWN

L5

AN

TI

IN

PA

PΙ

ΑI

FS

PRAI DT

LREP

CLMN

ECL

DRWN

L5

AN

TI

IN

PA

PI

AΙ

RLI

PRAI

DT

FS

LREP

Number of Claims: 17 CLMN Exemplary Claim: 1 ECL DRWN No Drawings LN.CNT 8083 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 42 OF 44 USPATFULL on STN L5 2002:235385 USPATFULL AN Nanoparticles having oligonucleotides attached thereto and uses therefor ΤI Mirkin, Chad A., Wilmette, IL, UNITED STATES IN Letsinger, Robert L., Wilmette, IL, UNITED STATES Mucic, Robert C., Glendale, CA, UNITED STATES Storhoff, James J., Evanston, IL, UNITED STATES Elghanian, Robert, Skokie, IL, UNITED STATES Taton, Thomas A., Little Canada, MN, UNITED STATES Nanosphere, Inc. (U.S. corporation) PA 20020912 US 2002127574 A1PΙ US 6720411 B2 20040413 20011010 (9) US 2001-973788 Α1 AΙ Continuation of Ser. No. US 2000-603830, filed on 26 Jun 2000, PENDING RLI Continuation-in-part of Ser. No. US 1999-344667, filed on 25 Jun 1999, GRANTED, Pat. No. US 6361944 Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999, ABANDONED Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997, UNKNOWN US 1996-31809P 19960729 (60) PRAI 20000426 (60) US 2000-200161P DT Utility FS APPLICATION Emily Miao, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S. LREP Wacker Drive, Chicago, IL, 60606 Number of Claims: 431 CLMN ECL Exemplary Claim: 1 DRWN 46 Drawing Page(s) LN.CNT 8060 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 43 OF 44 USPATFULL on STN L5 2002:168347 USPATFULL AN Nanoparticles having oligonucleotides attached ΤI thereto and uses therefor Mirkin, Chad A., Wilmette, IL, United States IN Letsinger, Robert L., Wilmette, IL, United States Mucic, Robert C., Glendale, CA, United States Storhoff, James J., Evanston, IL, United States Elghanian, Robert, Chicago, IL, United States Nanosphere, Inc., Northbrook, IL, United States (U.S. corporation) PA20020709 PIUS 6417340 B1 20001020 (9) US 2000-693352 ΑI Division of Ser. No. US 1999-344667, filed on 25 Jun 1999 RLIContinuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999, now abandoned Continuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997 US 1996-31809P 19960729 (60) PRAI Utility DT GRANTED FS Primary Examiner: Riley, Jezia EXNAM McDonnell Boehnen Hulbert & Berghoff LREP Number of Claims: 10 CLMN Exemplary Claim: 1 ECL 58 Drawing Figure(s); 34 Drawing Page(s) DRWN LN.CNT 4214 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2002:63683 USPATFULL ΑN Nanoparticles having oligonucleotides attached ΤI thereto and uses therefor Mirkin, Chad A., Wilmette, IL, United States IN Letsinger, Robert L., Wilmette, IL, United States Mucic, Robert C., Glendale, CA, United States Storhoff, James J., Evanston, IL, United States Elghanian, Robert, Chicago, IL, United States Nanosphere, Inc., Northbrook, IL, United States (U.S. corporation) PΑ 20020326 US 6361944 B1 PΙ 19990625 (9) US 1999-344667 ΑI Continuation-in-part of Ser. No. US 1999-240755, filed on 29 Jan 1999 RLIContinuation-in-part of Ser. No. WO 1997-US12783, filed on 21 Jul 1997 19960729 (60) PRAI US 1996-31809P DTUtility GRANTED FS Primary Examiner: Riley, Jezia EXNAM McDonnell Boehnen Hulbert & Berghoff LREP CLMN Number of Claims: 12 Exemplary Claim: 1 ECL 58 Drawing Figure(s); 34 Drawing Page(s) DRWN LN.CNT 4158 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>